

UK Patent Application

GB 2 246 065 A

(43) Date of A publication 22.01.1992

(21) Application No 9011528.8

(22) Date of filing 23.05.1990

(71) Applicants

Alec Davis
46 Alcolimbe Road, Northampton, Northants,
United Kingdom

Joe Thompson
79 Holly Road, Northampton, Northants,
United Kingdom

(72) Inventors

Alec Davis
Joe Thompson

(74) Agent and/or Address for Service

Joe Thompson
79 Holly Road, Northampton, Northants,
United Kingdom

(51) INT CL^s
A47B 47/05

(52) UK CL (Edition K)
A4L LSHB

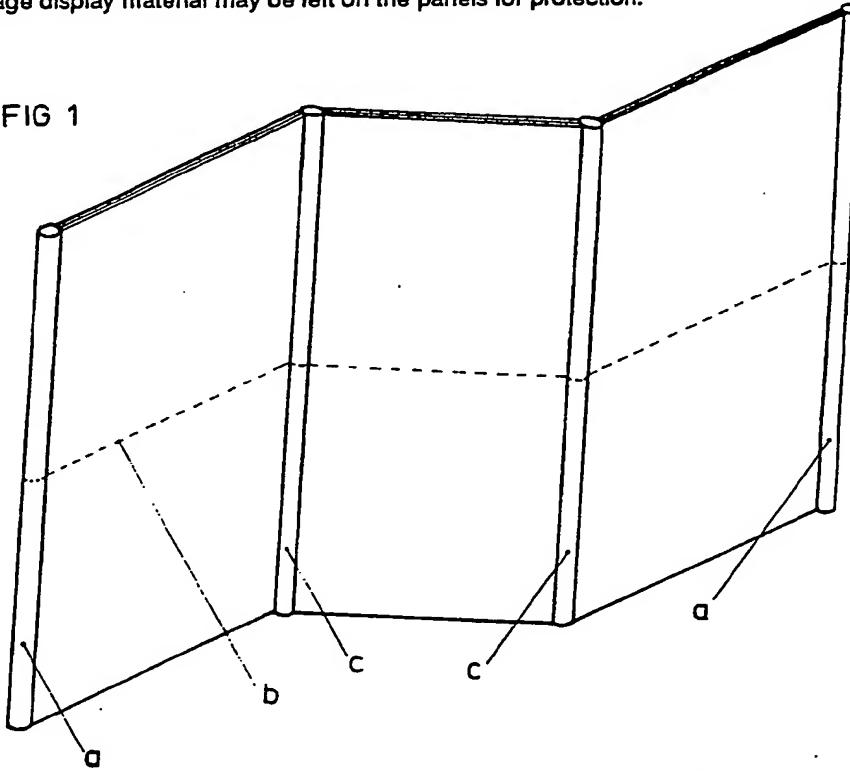
(56) Documents cited
GB 2206280 A GB 2046822 A GB 0983424 A
US 4498660 A

(58) Field of search
UK CL (Edition K) A4L LSA LSHA
INT CL^s A47B

(54) Lightweight display board system

(57) A display board system (Fig. 1) having the panels permanently joined by the facing fabric (b) and the fabric channels (a & c) into which supporting poles are inserted to stiffen the joints and enable the boards to be erected. If the said poles are hollow then suitable services may be supplied and generally hidden from either side of the said display board system. When packed by storage display material may be left on the panels for protection.

FIG 1



At least one of these pages has been prepared from an original which was unsuitable for direct photoreproduction.

GB 2 246 065 A

1/3

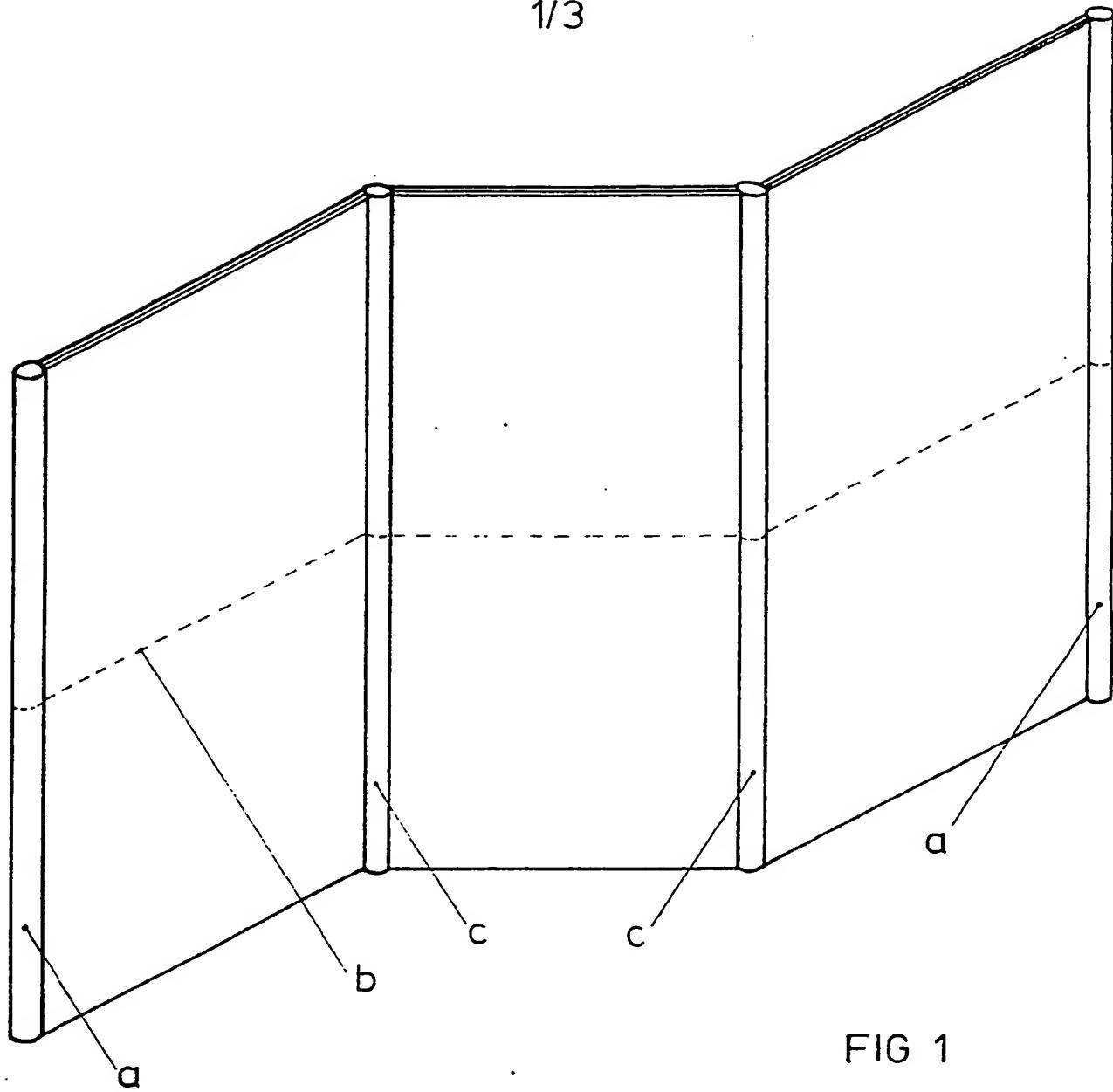


FIG 1

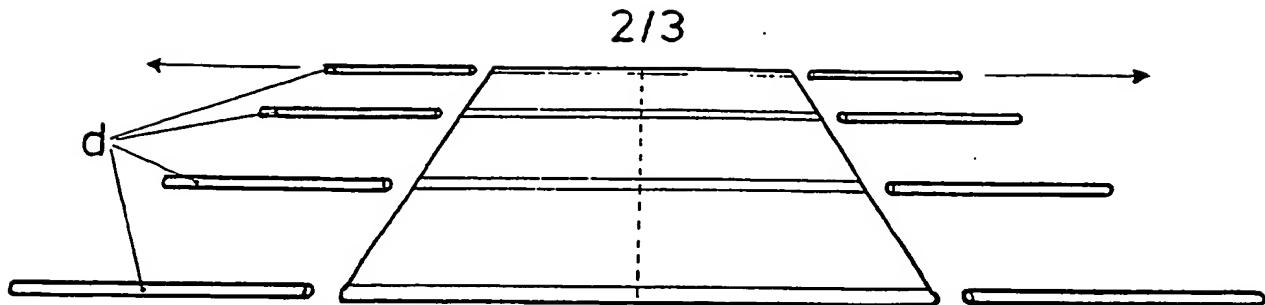


FIG 2

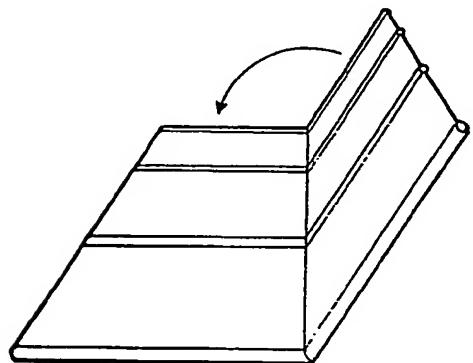


FIG 3

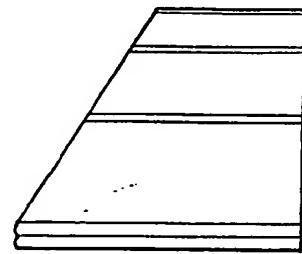


FIG 4

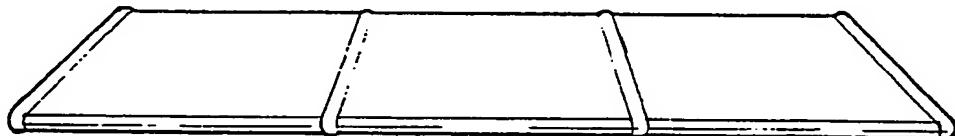


FIG 5

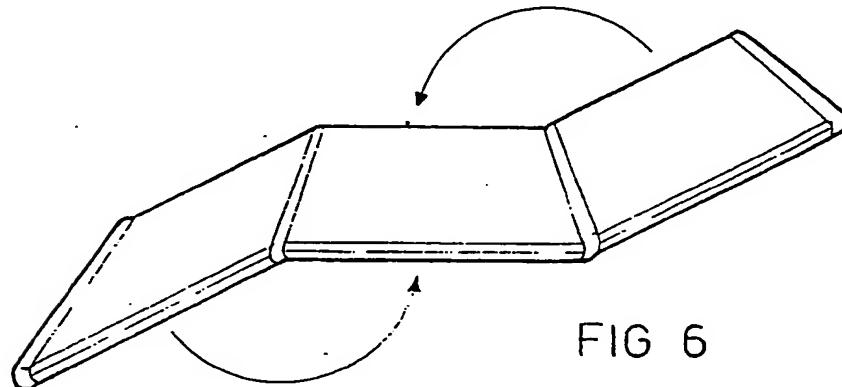


FIG 6

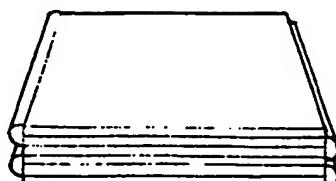
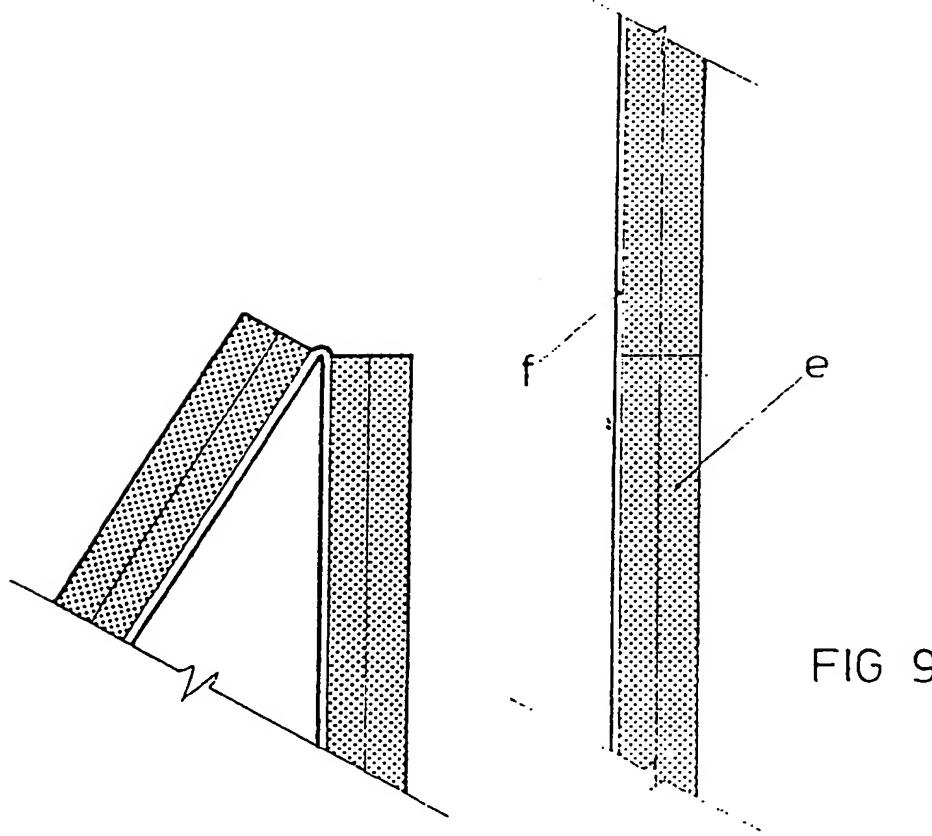
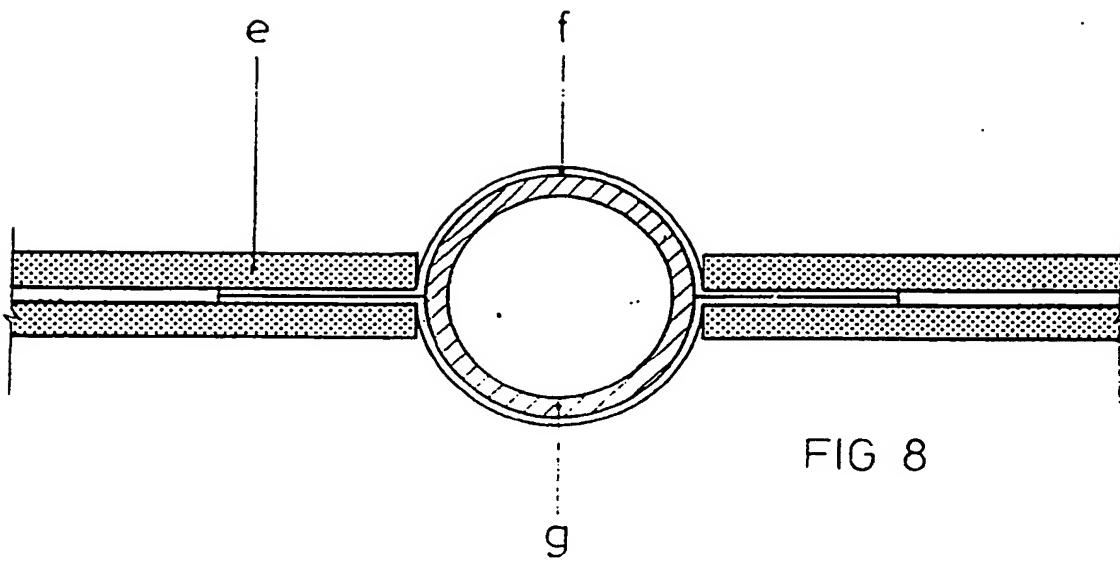


FIG 7

3/3



-1-

LIGHTWEIGHT DISPLAY BOARD SYSTEM

This invention relates to a display board system.

Display boards are panels which enable the user to exhibit a variety of material in a permanent or temporary fashion. There are many 'systems' existing which vary in degrees of their complexity and weight, but none which offer the same combination of simplicity, lightness and ease of manufacture of the system herein described.

According to the present invention there is provided a display system comprising interhinged panels and interlocking tubular supporting poles. When folded for transport or storage the fabric hinges collapse, enabling the minimum of space to be used, but when unfolded and the supporting poles inserted, the hinges stiffen and the structure becomes self supporting.

A specific embodiment of the invention will now be described by way of example with reference to the accompanying drawings:

Figure 1 shows, in isometric, a typical display system of six panels erected.

Figures 2 to 7 illustrate the process involved in folding such a system for storage.

Figures 8 and 9 illustrate the two particular hinges enabling the display boards to operate in this fashion.

Referring to Figure 1 the display system comprises six rigid panels jointed together by two vertical hinges (c) and one horizontal hinge (b). Supporting poles are inserted through the vertical hinges (c) and the two end pockets (a).

Figure 2 shows the system laid horizontally for packing, the supporting poles (d) removed from the hinges and the end pockets.

Figure 3 and 4 show the first fold along the horizontal hinge (b).

Figure 5 and 6 show the second folds along the vertical hinges.

Figure 7 shows the folded display boards.

Figure 8 illustrates a typical section through the vertical hinge showing the display board core material (e), the fabric of the hinge (f) and the removable supporting pole (g).

Figure 9 illustrates a typical section through the horizontal hinge showing display board core material (e) and the covering material (f) which acts as the actual hinge.

Erection of the system is achieved by reversing the process illustrated in Figures 1 to 7.

Suitable services pertinent to display systems (such as integrated lighting or sound) may be incorporated by running the necessary cables through the supporting poles.

By joining additional poles to the top, further display panels may be placed on the top as required.

Because of the way the display system folds, it is feasible to compose a display on the panels and then pack the system with the display intact and protected, by the panels themselves.

CLAIMS

- 1) A lightweight display system comprising permanently joined rigid panels which, when unfolded, may be erected by inserting separate supporting poles into the fabric hinges and also utilising the actual covering fabric as a hinge.
2. A lightweight display system as claimed in Claim 1, wherein the covering fabric of the panels is the same as the fabric of the hinges through which the supporting poles are inserted.